

(Z)-Dec-4-enyl ethyl carbonate

Inchi:	InChI=1S/C13H24O3/c1-3-5-6-7-8-9-10-11-12-16-13(14)15-4-2/h8-9H,3-7,10-12H2,1-2H
InchiKey:	GKCPRHJKDWFHID-HJWRWDBZSA-N
Formula:	C13H24O3
SMILES:	CCCCC=CCCCOC(=O)OCC
Mol. weight [g/mol]:	228.33

Physical Properties

Property code	Value	Unit	Source
gf	-200.12	kJ/mol	Joback Method
hf	-571.45	kJ/mol	Joback Method
hfus	33.60	kJ/mol	Joback Method
hvap	56.06	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	4.076		Crippen Method
mcvol	203.040	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinpol	1548.00		NIST Webbook
tb	599.71	K	Joback Method
tc	774.33	K	Joback Method
tf	325.58	K	Joback Method
vc	0.785	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.82	J/molxK	599.71	Joback Method
cpg	595.81	J/molxK	745.22	Joback Method
cpg	582.69	J/molxK	716.12	Joback Method
cpg	568.94	J/molxK	687.02	Joback Method
cpg	554.56	J/molxK	657.92	Joback Method
cpg	539.52	J/molxK	628.81	Joback Method
cpg	608.31	J/molxK	774.33	Joback Method
dvisc	0.0001150	Paxs	599.71	Joback Method
dvisc	0.0001515	Paxs	554.02	Joback Method

dvisc	0.0002095	Paxs	508.33	Joback Method
dvisc	0.0003091	Paxs	462.65	Joback Method
dvisc	0.0004965	Paxs	416.96	Joback Method
dvisc	0.0008963	Paxs	371.27	Joback Method
dvisc	0.0019096	Paxs	325.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373791&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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